

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FR2004/050549

A. CLASSIFICATION OF SUBJECT MATTER
H01L25/16 H01L25/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2002/106833 A1 (KOBAYASHI YUTAKA) 8 August 2002 (2002-08-08) paragraph '0089! - paragraph '0101!; figures 2A-20	1-7, 11-16 8-10
X A	US 6 507 106 B1 (HOEGERL JUERGEN) 14 January 2003 (2003-01-14) column 4, line 28 - column 5, line 10; figures 1A,1B	1,5,6, 11,14 2-4, 7-10,12, 13,15,16
X A	US 5 646 446 A (NICEWARNER JR EARL R ET AL) 8 July 1997 (1997-07-08) column 5, line 36 - column 7, line 8; figures 1-5	1,2,5,6, 14 3,4, 7-13,15, 16
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *A* document member of the same patent family

Date of the actual completion of the international search

6 December 2005

Date of mailing of the international search report

20/12/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Krause, J

Best Available Copy

INTERNATIONAL SEARCH REPORT

International Application No
PCT/FR2004/050549

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 544 915 A (FUJI ELECTROCHEMICAL CO LTD ; IWAKI ELECTRONICS CO LTD (JP)) 9 June 1993 (1993-06-09)	1, 14
A	page 5, line 46 - page 6, line 13; figure 1	3-14, 16-18
A	----- US 5 777 391 A (NISHI KUNIHICO ET AL) 7 July 1998 (1998-07-07) column 6, line 45 - column 8, line 27; figures 2,3	1-16
A	----- PATENT ABSTRACTS OF JAPAN vol. 0091, no. 50 (E-324), 25 June 1985 (1985-06-25) -& JP 60 030171 A (TOSHIBA KK), 15 February 1985 (1985-02-15) abstract -----	1, 14

Best Available Copy

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/FR2004/050549

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002106833	A1	08-08-2002	NONE	
US 6507106	B1	14-01-2003	DE 19923467 A1	30-11-2000
US 5646446	A	08-07-1997	US 5776797 A	07-07-1998
EP 0544915	A	09-06-1993	DE 69210183 D1	30-05-1996
			DE 69210183 T2	02-10-1996
			WO 9300705 A1	07-01-1993
			JP 2772739 B2	09-07-1998
			JP 5183067 A	23-07-1993
			US 5394011 A	28-02-1995
US 5777391	A	07-07-1998	JP 3487524 B2	19-01-2004
			JP 8227908 A	03-09-1996
JP 60030171	A	15-02-1985	NONE	

Best Available Copy